ABSTRACT OF THE DISCLOSURE

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Methods and materials are provided for stably introducing any gene into a specific locus in the genome of a microorganism such as yeast without the addition of any drug resistance genes. Specifically provided herein are new genetically engineered inositol-overproducing Saccharomyces cerevisiae strains obtained by using a novel set of yeast integration plasmids that allow the safe, stable, and controlled introduction of homologous as well as heterologous genes into the host genome. In particular, specific loci of the \underline{s} . cerevisiae yeast genome can be targeted with single or multiple copies of a specific gene that is desired to be expressed or a given set of specific genes that the host can use without the addition of any drug resistance genes. The principles of this new methodology can also be used for the construction of other recombinant yeast and bacterial strains as well as higher eukaryotic cells.